MMM	MMM	TTTTTTTTTTTTTT	ННН	HHH	RRRRRRRR	RRRR	TTTTTTTTTTTTTT	LLL
MMM	MMM	††††††††††††††††	ННН	ННН	RRRRRRRR		TTTTTTTTTTTTT	ili
MMM	MMM	ŤŤŤŤŤŤŤŤŤŤŤŤŤŤŤŤŤ	ННН	ннн	RRRRRRR		†††††††††††††††††	
MMMMMM	MMMMMM	111	нин	ннн	RRR	RRR	777	
MMMMMM	MMMMMM	+++						FFF
		111	ННН	ннн	RRR	RRR	ŢŢŢ	řřř
MMMMMM		!!!	ННН	HHH	RRR	RRR	ŢŢŢ	LLL
	MMM MMM	ŢŢŢ	HHH	HHH	RRR	RRR	TTT	LLL
	MMM MMM	111	HHH	HHH	RRR	RRR	TTT	LLL
MMM	MMM MMM	TTT	HHH	HHH	RRR	RRR	TTT	LLL
MMM	MMM	TTT	НИНИНИНИНИ		RRRRRRRR		ŤŤŤ	ĬĬĬ
MMM	MMM	TTT	НИНИНИНИНИ		RRRRRRRR		ŤŤŤ	<i>ו</i> ווֹ דּ
MMM	MMM	ŤŤŤ	НИНИНИНИНИ		RRRRRRRR		ŤŤŤ	iii
MMM	MMM	ŤŤŤ	ННН	ннн	RRR RR		ŤŤŤ	ili
MMM	MMM	ŤŤŤ	нин	ннн	RRR RR		ήii	
MMM	MMM	ή††	HHH	HHH	RRR RR		111	LLL
MMM		 T T						LLL
	MMM		ннн	ННН	RRR	RRR	ŢŢŢ	rrr
MMM	MMM	III	HHH	ННН	RRR	RRR	ŢŢŢ	LLL
MMM	MMM	TTT	ННН	HHH	RRR	RRR	TTT	LLL
MMM	MMM	TTT	ННН	HHH	RRR	RRR	TTT	
MMM	MMM	TTT	HHH	HHH	RRR	RRR	TTT	LLLLLLLLLLLLLLL
MMM	MMM	111	ННН	HHH	RRR	RRR	ŤŤŤ	

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MM MM MMM MMMM MMMM MMMM MMM MM MM MM MM		HH HHHHHH	DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD		AAAAA AA AA AA AA	NN NN NN NN NN NN NN NN NNNN NN NNNN NN NN NN NN NN NN	••••
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Page 0

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0000
                      .TITLE MTHSDTAN
                                                   Double Precision Floating Point Tangent routine
                                                  ; (DTAN, DTAND)
; File: MTHDTAN.MAR EDIT:SBL1013
                      .IDENT /1-013/
0000
0000
          6
0000
                 COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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              FACILITY: MATH LIBRARY
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              ABSTRACT:
0000
0000
              MTH$DTAN is a function which returns the double precision floating point
0000
               tangent of its double precision floating point radian argument. The call is
0000
              standard call-by-reference. It JSB to MTH$DTAN_R7.
0000
0000
              MTH$DTAND is a function which returns the double precision floating point
              tangent of its double precision floating point degree argument. The call is standard call-by-reference. It JSB to MTHSDTAND_R7.
0000
0000
0000
         40
0000
         41
         42
0000
0000
              VERSION: 01
0000
         44
0000
              HISTORY:
0000
0000
0000
         46
              AUTHOR:
                     Peter Yuo, 29-Jun-77: Version 01
         48
         49
50
51
52
              MODIFIED BY:
0000
0000
```

; Double Precision Floating Point Tangen 16-SEP-1984 01:22:34 VAX/VMS Macro V04-00 6-SEP-1984 11:22:54 [MTHRTL.SRC]MTHDTAN.MAR;1

Page

(1)

1-

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Double Precision Floating Point Tangen 16-SEP-1984 01:22:34
ISTORY; Detailed Current Edit History 6-SEP-1984 11:22:54
                                                                                          VAX/VMS Macro V04-00 [MTHRTL.SRC]MTHDTAN.MAR;1
                                                                                                                                   Page
                                                                                                                                            (2)
HISTORY; Detailed Current Edit History
                  54
55
                                  .SBTTL HISTORY; Detailed Current Edit History
       ŎŎŎŎ
                  56
57
       0000
       0000
                         ALGORITHMIC DIFFERENCES FROM FP-11/C ROUTINE: none
       0000
                  59
       0000
                                  The result is reserved operand when DCOS(X) = 0, instead
       0000
                  60
                                  of largest or smallest representable floating number.
       0000
                  61
       0000
                         Edit History for Version 01 of MTH$DTAN
       0000
       0000
                         01-2 Error handling mechanism changed. Instead of having
       0000
                  65
                                  MTH$FLG_JACKET at the entrance, MTH$$ERROR_CONT is stored on the
       0000
                                  top of the stack frame so when error happened in MTH$DSIN or MTH$DCOS
                  66
       0000
                  67
                                  the message will be hided away, but will get signalled in MTH$DTAN. MTH$$ERROR changed to MTH$$SIGNAL.
       0000
                         0-3
                  68
       0000
                  69
                                  MTH$$ERROR_CONT changed to MTH$$SIGNAL_CON MTH$_... changed to MTH__...
       0000
                  70
       0000
                  71
                                  Changed error handling mechanism. Put error result in RO:R1 before
       0000
                                  calling MTH$$$IGNAL in order to allow user modify error result.
                         1-001 - Update version number and copyright notice. JBS 16-NOV-78 1-002 - Changed MTH FLOOVEMAT to MTH$K FLOOVEMAT. JBS 06-DEC-78 1-003 - Removed $SRMDEF macro - not needed. JBS 16-DEC-78 1-004 - Add ''_' to the PSECT directive. JBS 22-DEC-78
       0000
                  74
75
       0000
       0000
                  76
77
       0000
                          1-005 - Declare externals. SBL 17-May-1979
       0000
                          1-006 - Rearrange code to handle exceptions correctly. SBL 17-May-1979
1-007 - Add JSB entry point. JBS 16-AUG-1979
       0000
                  78
       0000
       0000
                  80
                          1-008 - Signal exceptions correctly. JBS 16-AUG-1979
1-009 - Correct a typo in edit 007. JBS 17-AUG-1979
       0000
                         1-010 - Make CALL entry use JSB routine. Correct error handling. Do COS before SIN. SBL 31-0ct-1979
       0000
       0000
                      1-011 - Added degree entry points. RNH 8-MAR-1981
1-012 - Modify MTH$DTAN_R7 and MTH$DTAND_R7 to JSB to MTH$DSINCOS_R7 and
MTH$DSINCOSD_R7 instead of MTH$DSIN_R7, MTH$DCOS_R7, and
MTH$DSIND_R7, MTH$DCOSD_R7. RNH 27-AUG-81.
       0000
       0000
       0000
                  86
       0000
       0000
                         1-013 - Use general mode addressing. SBL 30-Nov-1981
```

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```
; Double Precision Floating Point Tangen 16-SEP-1984 01:22:34 VAX/VMS Macro V04-00 DECLARATIONS; Declarative Part of Modul 6-SEP-1984 11:22:54 [MTHRTL.SRC]MTHDTAN.MAR; 1
                                     .SBTTL DECLARATIONS
                                                                   : Declarative Part of Module
            0000
0000
                             INCLUDE FILES:
                             EXTERNAL SYMBOLS:
                                     .DSABL
                                              MTKSDSINCOS R7
MTHSDSINCOSD R7
                     101
                                     .EXTRN
                     102
103
104
105
106
                                      EXTRN
                                               MTH$K_FLOOVEMAT
                                      EXTRN
             0000
                                      EXTRN
                                               MTH3$SIGNAL
             0000
                                     .EXTRN
                                               MTH$K_FLOUNDMAT
             0000
                                     .EXTRN
                                               MTH$$JACKET_TST
             0000
            0000
0000
0000
                     108
                     109
                             EQUATED SYMBOLS:
                                                         none
                     110
             0000
                     111
                          : MACROS:
             ŎŎŎŎ
                     112
             0000
                                    $SFDEF
                                                                             ; Define SF (Stack Frame) symbols
             0000
                     114
             0000
                     115
            0000
                          : PSECT DECLARATIONS:
                     116
117
             0000
       0000000
                     118
                                                                   PIC, SHR, LONG, EXE, NOWRT
                                     .PSECT _MTH$CODE
                     119
             0000
                                                                              ; program section for math routines
                     120
121
122
123
124
125
            0000
            0000
                             OWN STORAGE: none
            0000
            0000
                             CONSTANTS:
            0000
00000004
            0000
                                     X = 4
                                                                             ;Position of argument from AP.
                     126
127
128
129
130
             0000
                          D_SMALLEST_DEG: .LONG
             0000
2EE04365
0FBED31E
            0000
                                               ^X2EE04365
                                               ^XOFBED31E
            0004
                                     .LONG
             0008
```

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```
; Double Precision floating Point Tangen 16-SEP-1984 01:22:34 MTH$DTAN - Standard Double Precision FL 6-SEP-1984 11:22:54
                                                                                                                        Page
                                                                                        [MTHRTL.SRC]MTHDTAN.MAR; 1
                                                                                                                               (4)
                                           .SBTTL MTH$DTAN - Standard Double Precision Floating DTAN
                             13345
13367
1339
1339
                     ŎŎŎŠ
                     0008
                     8000
                                  ++
                     0008
                                   FUNCTIONAL DESCRIPTION:
                     0008
                     0008
                                   DTAN - double precision floating point function
                     0008
                     0008
                             140
                                           For algorithm, see MTH$DTAN_R7.
                     0008
                             141
142
143
                     ŏŏŏĕ
                                    CALLING SEQUENCE:
                     ŎŎŎ8
                     ŎŎŎŠ
                             144
                                           DTAN.wd.v = MTHSDTAN(x.rd.r)
                     0008
                             145
                     0008
                                    INPUT PARAMETERS:
                             146
                     0008
                     0008
                             148
                                           X.rd.r
                                                                      Address of value of angle in radians.
                             149
                     0008
                     0008
                             150
                                    IMPLICIT INPUTS:
                                                             none
                     0008
                             151
                             152
153
                     0008
                                    OUTPUT PARAMETERS:
                     0008
                     0008
                             154
                                           VALUE: double precision floating tangent of the argument
                     0008
                             155
                     0008
                             156
                                    IMPLICIT OUTPUTS:
                                                             none
                             157
                     0008
                             158
                     0008
                                    COMPLETION CODES:
                                                             none
                     0008
                             159
                     0008
                             160
                                   SIDE EFFECTS:
                     0008
                             161
                             162
                     0008
                                           See MTH$DTAN_R7
                     0008
                     8000
                             164
                     8000
                             165
                     8000
                             166
             40FC
                             167
                    0008
                                           .ENTRY MTH$DTAN, ^M<IV, R2, R3, R4, R5, R6, R7>
                     000A
                             168
                                                                                ; standard call-by-reference entry
                             169
                     000A
                                                                                ; disable DV (and FU), enable IV
                             170
                     000A
                                           MTHSFLAG_JACKET
                     000A
0000000° GF
                9E
                     000A
                                           MOVAB
                                                    G^MTH$$JACKET_HND, (FP)
                     0011
                                                                                  set handler address to jacket
                     0011
                                                                                ; handler
                     0011
                70
10
      04 BC
01
                     0011
                             171
                                           MOVD
                                                    ax(AP), RO
                                                                                  R0/R1 = argument
                     0015
                             172
                                          BSBB
RET
                                                    MTH$DTAN_R7
                                                                                  Get the tangent
                04
                             173
                     0017
```

: With result in RO-R1

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```
: Double Precision Floating Point Tangen 16-SEP-1984 01:22:34 MTH$DTAN_R7 - JSB entry point 6-SEP-1984 11:22:54
                                                                                                        VAX/VMS Macro V04-00
                                                                                                                                                 Page
                                                                                                                                                         (5)
                                                                                                         EMTHRTL.SRCJMTHDTAN.MAR: 1
                                  175
176
177
                         0018
0018
0018
                                                   .SBTTL MTH$DTAN_R7 - JSB entry point
                                  178
179
180
181
182
183
184
185
                                        : FUNCTIONAL DESCRIPTION:
                         DIAN - JSB entry point
                                          Algorithmic steps:
1. Compute DSIN and DCOS.
                                            2. If DCOS is zero, we have an error. 3. Return DSIN / DCOS.
                                  186
187
188
189
                                           CALLING SEQUENCE:
                                                              argument, RO MTH$DTAN_R7
                                                   MOVD
                                  JSB
                                           INPUT PARAMETERS:
                                                   RO / R1 contains X
                                          IMPLICIT INPUTS:
                                                   NONE
                                          OUTPUT PARAMETERS:
                                                   The result is the tangent of X, in double precision.
                                          IMPLICIT OUTPUTS:
                                                   NONE
                                          SIDE EFFECTS:
                         0018
                         0018
                                       MTHSDTAN_R7::
                         0018
                                                              G^MTH$DSINCOS_R7
R2
COSZER
R2, R0
0000000 GF
                   16
73
13
66
05
                         0018
                                                                                                   Compute DSIN(X) and DCOS(X) Is DCOS(X) zero ?
                        001E
0020
0022
0025
            52
62
52
                                                    TSTD
                                                   BEQL
DIVD2
                                                                                                   If yes, then go to common error path Compute DSIN 7 DCOS
     50
                                                   RSB
                                                                                                : Return.
                         0026
0026
```

	; Double Precisi MTH\$DTAND - Sta	M 1 on Floating Point Tangen 16-SEP-1984 01:22:34 VAX/VMS Macro V04-00 Page 6 ndard Double Precision F 6-SEP-1984 11:22:54 [MTHRTL.SRC]MTHDTAN.MAR;1 (6)
	0026 221 0026 222 0026 223	.SBTTL MTH\$DTAND - Standard Double Precision floating DTAND
	0026 223 0026 2227 0026 2228 0026 0026 0026 0026 0026 0026	FUNCTIONAL DESCRIPTION:
	0026 227 0026 228	DTAND - double precision floating point function
	0026 229	For algorithm, see MTH\$DTAND_R7.
	0026 231 0026 231	CALLING SEQUENCE:
	0026 233 0026 233	DTAND.wd.v = MTH\$DTAND(X.rd.r)
	0026 235 0026 235	INPUT PARAMETERS:
	0026 236 0026 237	; X.rd.r ;Address of value of angle in degrees.
	0026 238 0026 239	IMPLICIT INPUTS: none
	0026 240 0026 241	OUTPUT PARAMETERS:
	0026 0026	; VALUE: double precision floating tangent of the argument
	0026 244 0026 245	IMPLICIT OUTPUTS: none
	0026 246 0026 247	COMPLETION CODES: none
	0026 247 0026 248 0026 249	SIDE EFFECTS:
	0026 250 0026 251	See MTH\$DTAND_R7
	0026 250 0026 251 0026 252 0026 253 0026 254	
	0026 254 0026 255	
	0026 255 40FC 0026 256 0028 257 0028 258 0028 259	<pre>.ENTRY MTH\$DTAND, ^M<iv, r2,="" r3,="" r4,="" r5,="" r6,="" r7=""></iv,></pre>
	0028 258 0028 259	; disable DV (and FU), enable IV (MTH\$FLAG_JACKET
6D	0000000 GF 9E 0028	MOVAB G^MTH\$\$JACKET_HND, (FP)
	002F	; set handler address to jacket ; handler
	002F 002F 50 04 BC 70 002F 260 01 10 0033 261	MOVD ax(AP), RO ; RO/R1 = argument
	01 10 0033 261 04 0035 262	BSBB MTH\$DTAND_R7 : Get the tangent RET : With result in RO-R1
	04 0037 202	me.

```
N 1
: Double Precision Floating Point Tangen 16-SEP-1984 01:22:34 VAX/VMS Macro V04-00
MTH$DTAND_R7 - JSB entry point 6-SEP-1984 11:22:54 [MTHRTL.SRC]MTHDTAN.MAR;1
                                                                                                                                                                               7 (7)
                                       264
265
2667
2689
271
273
                            0036
                                                           .SBTTL MTH$DTAND_R7 - JSB entry point
                            0036
0036
                                             : FUNCTIONAL DESCRIPTION:
                            0036
                            0036
                                                 DTAND - JSB entry point
                             0036
                             0036
                                                 Algorithmic steps:
1. Make sure that the absolute value of the argument is greater
                            0036
                            0036
                                                        than 180/pi+2+128
                                                  2. Compute DSIND and DCOSD.
3. If DCOSD is zero, we have an error.
4. Return DSIND / DCOSD.
                            0036
                                        0036
                            0036
                            0036
                            0036
                                                 CALLING SEQUENCE:
                            0036
                            0036
0036
0036
                                                                       argument, RO
                                                           JSB
                                                                       MTH$DTAND_R7
                            0036
0036
                                                 INPUT PARAMETERS:
                            0036
0036
0036
0036
0036
0036
                                                          RO / R1 contains x
                                                 IMPLICIT INPUTS:
                                                          NONE
                                                 OUTPUT PARAMETERS:
                            0036
                                                          The result is the tangent of x, in double precision.
                            0036
                                        295
296
297
298
                            0036
                                                 IMPLICIT OUTPUTS:
                            0036
0036
                                                          NONE
                            0036
                                        299
300
301
302
                            0036
                                                 SIDE EFFECTS:
                            0036
                            0036
                                                          NONE
                            0036
0036
                                             MTH$DTAND_R7::
                                                                       RO, R2
#^X8000, R2
#^X0300, R2
      52
8000
                                        304
305
306
307
308
310
311
             50
8F
                            0036
                                                           MŌVD
                                                                                                                 Save_argument
                                                                                                              R2/R3 = largument:
Compare larg; with 2**-121
                      AA
B1
15
71
19
73
12
70
05
                            0039
                                                           BICW
              8F
      0300
                            003E
                                                           CMPW
                            0043
              OD
                                                           BLEQ
                                                                       D_SMALLEST_DEG, R2
                                                                       20$
                                                                                                                 No possible underflow, compute DCOSD
                                                                                                                Possible underflow, compute blusb
Possible underflow, use better check
No possible underflow, compute DCOSD
Check for argument = 0
If arg not 0, go to underflow logic
Load RO/R1 with zero
Return with value = 0
 52
         B8
                            0045
                                                           CMPD
              AF
              07
                            0049
                                                           BLSS
              52
11
                            004B
                                                           TSTD
                            004D
                                                           BNEQ
                                                                       UNFL
                                        312
313
314
315
              50
                            004F
                                                           CLRD
                            0051
                                                           RSB
                            0052
0052
0058
                                             20$:
                     16
73
13
66
05
                                                           JSB
TSTD
                                                                                                              : Compute DSIND(X), and DCOSD(X)
: Is DCOSD(X) zero ?
0000000'GF
                                                                       G^MTH$DSINCOSD_R7
                                        316
317
318
319
                                                                       R2
COSZER
              28
52
                                                                                                                If yes, then go to common error path Compute DSIND / DCOSD
                            005A
                                                           BEQL
                                                           DIVDZ
      50
                            005C
                                                                       R2, R0
                            005F
                                                           RSB
                                                                                                                Return.
                             0060
```

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MTHSDTAN 1-013 B 2; Double Precision Floating Point Tangen 16-SEP-1984 01:22:34 VAX/VMS Macro V04-00 Page 8 MTH\$DTAND_R7 - JSB entry point 6-SEP-1984 11:22:54 [MTHRTL.SRC]MTHDTAN.MAR;1 (7)

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; Doub > Precision Floating Point Tangen 16-SEP-1984 01:22:34 VAX/VMS Macro V04-00 MTH$DTAND_R7 - JSB entry point 6-SEP-1984 11:22:54 [MTHRTL.SRC]MTHDTAN.MAR;1
                                                                                                                                                           9
(8)
                                        323
324
325
326
327
                               0060
                                                        COMMON ERROR CODE
                               0060
                               0060
                               0060
                                                Underflow; if user has FU set, signal error. Always return 0.0
                               0060
                                        330 UNFL:
                               0060
                                                                                                      R2 = user's or jacket routine's PSL
R0 = TRUE if JSB from jacket routine
branch if user did JSB
                               0060
                                                        MOVPSL
                         FB
E9
30
D4
                                        332
333
                                                                   #O, G^MTH$$JACKET_TST
RO, 10$
0000000'GF
                               0062
                                                         CALLS
                               0069
              04
                  50
                                                         BLBC
                                        334
335
336
337
338
339
                              006C
0070
                                                                                                      get user PSL saved by CALL
RO = result. LIB$SIGNAL will save in
                  AD
50
        52
              04
                                                         MOVZWL
                                                                   SF$W_SAVE_PSW(FP), R2
                                                         CLRL
                                                                                                      CHF$L_MCH_RO/R1 so any handler can fixup has user enabled floating underflow?
                               0072
                               0072
        OD 52
                  06
                         E1
                                                                   #6, R2, 20$
                                                                   (SP)
                               0076
                         DD
                                                        PUSHL
                                                                                                      yes, return PC from special routine
        7E
              00'8F
                         9A
                               0078
                                                         MOVZBL
                                                                                                      trap code for hardware floating underflow
                                                                   #MTH$K_FLOUNDMAT, -(SP)
                                                                                                      convert to MTHS_FLOUNDMAT (32-bit VAX-11
                               007C
                               007C
                                         341
                                                                                                      exception code)
                         FB 05
                                        342
343
0000000'GF
                   02
                               007C
                                                         CALLS
                                                                   #2, G^MTH$$SIGNAL
                                                                                                      signal (condition, PC)
                                             20$:
                               0083
                                                         RSB
                                                                                                    : return
                                        344
345
                               0084
                               0084
                               0084
                                        346
                                             ; Come here if COS value is zero.
                                        347 :-
348 COSZER:
                               0084
                               0084
                               0084
                                        349
                                                                                                      Push 'caller' PC
                                                        PUSHL
              00'8F
0F
02
                         9A
79
FB
05
                                                                   WMTHSK_FLOOVEMAT, -(SP) #15, #T, RO
                               0086
                                        350
                                                         MOVZBL
                                                                                                       Condition value
        7E
           01
                               008A
                                        351
                                                         ASHQ
                                                                                                       R0/R1 = reserved operand
                                        352
353
354
355
                              008E
0095
00000000 GF
                                                                   #2, G^MTH$$SIGNAL
                                                        CALLS
                                                                                                      Signal an error
```

Return to caller

RSB

.END

0096 0096

Page

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```
; Double Precision floating Point Tangen 16-SEP-1984 01:22:34 VAX/VMS Macro V04-00 6-SEP-1984 11:22:54 [MTHRTL.SRC]MTHDTAN.MAR;1
MTH$DTAN
                                                                                                                                          Page
                                                                                                                                                 (8)
Symbol table
COSZER
                   00000084 R
                                    D SMALLEST DEG
MTH$$JACKET_HND
                   00000000 R
                   ******
MTH$$JACKET_TST
MTH$$SIGNAL
MTHSDSINCOSD_R7
MTH$USINCOS_R7
                    ******
                   00000008 RG
MTHSDTAN
                   00000026 RG
00000036 RG
MTHSDTAND
MTHSDTAND_R7
MTHSDTAN R7
                   00000018 RG
MTHSK_FLOOVEMAT *******
MTHSK_FLOUNDMAT ******
SFSW_SAVE_PSW = 00000004
                   00000060 R
                                    02
UNFL
                 = 00000004
                                                        Psect synopsis!
PSECT name
                                                           PSECT No.
                                    Allocation
                                                                       Attributes
                                                     0.)
                                                           00 ( 0.)
                                                                       NOPIC
                                                                                                    LCL NOSHR NOEXE NORD
   ABS
                                    00000000
                                                                                                                             NOWRT NOVEC BYTE
                                                     Ŏ.)
                                                           01 ( 1.)
                                                                       NOPIC
                                                                                       CON
                                                                                                                  EXE
                                                                                                                        RD
                                                                                                                               WRT NOVEC BYTE
SABSS
                                    00000000
                                                                                USR
                                                                                              ABS
                                                                                                    LCL NOSHR
_MTH$CODE
                                                           02 (
                                                                                       CON
                                                                                                                         RD
                                    00000096
                                                   150.)
                                                                         PIC
                                                                                USR
                                                                                              REL
                                                                                                           SHR
                                                                                                                  EXE
                                                                                                                             NOWRT NOVEC LONG
                                                                                                    LCL
                                                     Performance indicators
Phase
                                             CPU Time
                            Page faults
                                                              Elapsed Time
                                             00:00:00.09
                                                              00:00:00.84
Initialization
                                             00:00:00.70
                                                              00:00:06.99
Command processing
                                     121
                                                              00:00:06.06
                                             00:00:01.46
Pass 1
                                                              00:00:00.13
                                      0
                                             00:00:00.03
Symbol table sort
                                     74
3
                                                              00:00:03.69
Pass 2
                                             00:00:00.90
                                                              00:00:00.25
                                             00:00:00.02
Symbol table output
                                             00:00:00.03
                                                              00:00:00.33
Psect synopsis output
                                             00:00:00.00
                                                              00:00:00.00
Cross-reference output
                                             00:00:03.23
                                                              00:00:18.30
Assembler run totals
The working set limit was 900 pages. 6631 bytes (13 pages) of virtual memory were used to buffer the intermediate code.
There were 10 pages of symbol table space allocated to hold 44 non-local and 3 local symbols.
415 source lines were read in Pass 1, producing 16 object records in Pass 2.
9 pages of virtual memory were used to define 8 macros.
                                                    Macro library statistics !
                                                   Macros defined
Macro library name
 _$255$DU \B:[SYSLIB]STARLET.MLB:2
                                                               4
```

D 2

MTH\$DTAN

TAXX-11 Macro Run Statistics

B 2

MTH\$DTAN

TAXX-11 Macro Run Statistics

B 3

There were no errors, warnings or information messages.

MACRO/ENABLE=SUPPRESSION/DISABLE=(GLOBAL,TRACEBACK)/LIS=LIS\$:MTHDTAN/OBJ=OBJ\$:MTHDTAN MSRC\$:MTHJACKET/UPDATE=(ENH\$:MTHJACKET)+MSRC\$:

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